



PanaFlow HT

Quick-start guide

BH027C41 EN A



WARNING! The PanaFlow HT flow transmitter can measure the flow rate of many fluids, some potentially hazardous. Be sure to follow local safety codes and regulations for installing electrical equipment and working with hazardous fluids or flow conditions.

1. Thank you

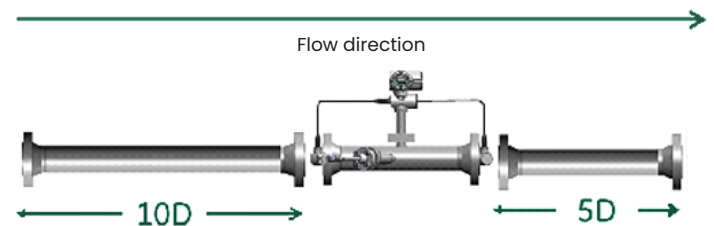
Thank you for purchasing the PanaFlow HT ultrasonic flowmeter. Before removing the PanaFlow HT system from the crate, please inspect the flowmeter carefully. Each instrument manufactured by Panametrics is warranted to be free from defects in material and workmanship. Before discarding any of the packing materials, account for all components and documentation listed on the packing slip.



2. Meter installation

The ideal site is a straight section of process pipe meeting the following criteria:

- Pipe section is horizontal and above ground.
- Pipe section can accommodate the overall length of the flowcell.
- There is sufficient clearance for the transducers on the sides of the meter at the 3 o'clock and 9 o'clock positions.
- There are at least 10 pipe diameters of straight, undisturbed flow upstream and 5 pipe diameters of straight, undisturbed flow downstream from the transducers (see User's Manual).
- For remote-mounted electronics, the electronics console should be located within 100 ft (30 m) from the meter body (see User's Manual).



5. Communication and power wiring

The picture below shows the communication and power wiring to the XMT900 electronics. Make all communication wiring before wiring the power terminals. After all wiring is complete, apply the power.

Terminal Block - Inputs/Outputs

Pin	Label	Description
1	A-	Analog Output A: 4-20mA/HART Output (SIL) Negative
2	A+	Analog Output A: 4-20mA/HART Output (SIL) Positive
3	B-	Analog Output B: 4-20mA Negative
4	B+	Analog Output B: 4-20mA Positive
5	C-	Digital Output C: Negative
6	C+	Digital Output C: Positive
7	D-	Digital Output D: Negative
8	D+	Digital Output D: Positive

Terminal Block - Modbus/Calibration Connections

Pin	Label	Description
1	MOD-	Modbus/Service Port Negative
2	MOD+	Modbus/Service Port Positive
3	CAL-	Calibration Port Negative
4	CAL+	Calibration Port Positive



Terminal Block - Power Connections (AC)

Pin	Label	Description
1	L2/N	Neutral Connection
2	L1	Live Power Connection

6. Programming & Testing

The keypad and magnetic wand enable programming of the instrument through the glass faceplate without removing the cover. Thus, all programming procedures may be performed while the unit is installed in a hazardous area. See the User's Manual for programming instructions.



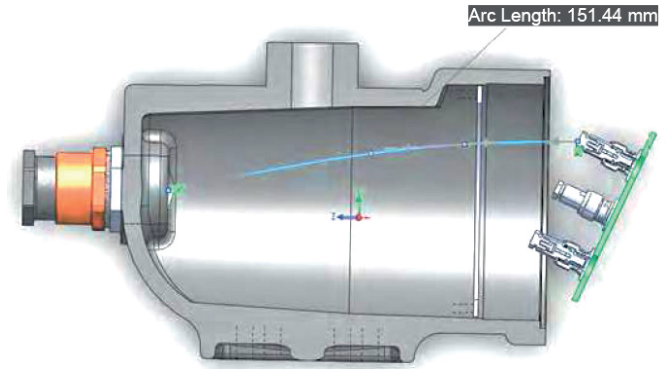
3. Remote electronics mounting (remote mount only)

If you have a remote-mounted XMT900 electronics, mount it to either a wall or to a 2" pipe system using the enclosed mounting system. If you have a local-mount unit, go to step 5.



4. Remote transducer wiring (remote-mount only)

To make electrical connections, remove the terminal board from the enclosure by first loosening the screws and twisting the terminal board counter clockwise. Feed each cable through a conduit hole on the side of the enclosure and plug them into the appropriate connection on the terminal board.



7. Final steps

Complete the SIL requirements and register your device. Reference the Safety Manual for the Safety Instrumented System (SIS) and the PanaFlow HT User's Manual for exact details.



PanaFlow™ HT

User's manual

BH027C11 EN C

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8. Contact us

If you have any questions about your equipment, please contact us at:

Phone: +1 978 437 1000

E-mail: custcareboston@panametrics.com

Address: 1100 Technology Drive
Billerica, MA 01821-4111

Web: www.panametrics.com

Customer support centers

U.S.A.

The Boston Center
1100 Technology Park Drive
Billerica, MA 01821

U.S.A.

Tel: 800 833 9438 (toll-free)

978 437 1000

E-mail: custcareboston@bakerhughes.com

Ireland

Sensing House
Shannon Free Zone East
Shannon, County Clare
Ireland

Tel: +353 (0)61 470291

E-mail: custcareboston@bakerhughes.com

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